

WHAT IS CLAIMED IS:

- 1           1.     A component storage system comprising:  
2                     an enclosed component storage area;  
3                     a dry gas delivery system for delivery of a dry gas to the storage area  
4     to maintain a dry atmosphere in the storage area and to prevent moisture from being  
5     absorbed by the components; and  
6                     a temperature control system for controlling a temperature of the dry  
7     gas to about 10°C to about 60°C.
- 1           2.     The system of Claim 1, wherein the component storage area is a  
2     feeder cart for storing the components.
- 1           3.     The system of Claim 1, wherein the component storage area is a  
2     cabinet receiving at least one feeder cart for storing the components.
- 1           4.     The system of Claim 1, wherein the component storage area is a  
2     storage cabinet for storing the components.
- 1           5.     The system of Claim 1, wherein the temperature control system  
2     controls the temperature of the dry gas to about 20°C to about 50°C.
- 1           6.     The system of Claim 1, wherein a flow rate of the dry gas delivered  
2     to the storage area is controlled by a control system including a humidity sensor  
3     within the component storage area.

1           7.     The system of Claim 1, wherein a temperature and a flow rate of the  
2     dry gas are controlled to eliminate moisture from the components while the  
3     components are stored in the storage area.

1           8.     The system of Claim 7, wherein the temperature and the flow rate of  
2     the dry gas are controlled to remove about 0.1% or more of the weight of the  
3     components by elimination of moisture while the components are stored in the  
4     storage area.

1           9.     The system of Claim 7, wherein the temperature and the flow rate of  
2     the dry gas are controlled to remove moisture from the components to achieve a  
3     moisture level in which moisture accounts for 0.1% or less of the weight of the  
4     component.

1           10.    A method eliminating moisture from electronic components, the  
2     method comprising:  
3                storing electronic components in a storage area; and  
4                maintaining a warm and dry atmosphere in the storage area by  
5     enclosing the storage area and injecting a warm and dry gas into the storage area at a  
6     flow rate and temperature which are controlled to eliminate moisture from the  
7     components in the storage area.

1           11.    The method of Claim 10, wherein the component storage area is a  
2     feeder cart for storing the components.

1           12.    The method of Claim 10, wherein the component storage area is a  
2     cabinet receiving at least one feeder cart for storing the components.

1           13.    The method of Claim 10, wherein the component storage area is a  
2 storage cabinet for storing the components.

1           14.    The method of Claim 10, wherein the temperature control system  
2 controls the temperature of the dry gas to about 10°C to about 60°C.

1           15.    The method of Claim 10, wherein the temperature control system  
2 controls the temperature of the dry gas to about 20°C to about 50°C.

1           16.    The method of Claim 10, wherein a flow rate of the dry gas delivered  
2 to the storage area is controlled by a control system including a humidity sensor  
3 within the component storage area.

1           17.    The method of Claim 10, further comprising removing about 0.1% or  
2 more of the weight of the components by elimination of moisture while the  
3 components are stored in the storage area.